

ADED 739 Course Outline as of Summer 2025**CATALOG INFORMATION**

Dept and Nbr: ADED 739 Title: CARPENTRY TOOLS

Full Title: Carpentry Tool Use and Safety

Last Reviewed: 10/23/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0	Lecture Scheduled	0	17.5	Lecture Scheduled	0
Minimum	0	Lab Scheduled	7.00	8	Lab Scheduled	122.50
		Contact DHR	0		Contact DHR	0
		Contact Total	7.00		Contact Total	122.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 122.50

Title 5 Category: Non-Credit

Grading: Non-Credit Course

Repeatability: 27 - Exempt From Repeat Provisions

Also Listed As:

Formerly: ADLTED 739

Catalog Description:

In this course, students will learn about the safe and proper use of hand and power tools in residential carpentry. Students will also learn basic carpentry skills and use tools in basic carpentry projects.

Prerequisites/Corequisites:

Course Completion or Current Enrollment in ADED 740 (or ADLTED 740)

Recommended Preparation:

Course Completion of ADLTED 744 and ADLTED 746

Limits on Enrollment:**Schedule of Classes Information:**

Description: In this course, students will learn about the safe and proper use of hand and power tools in residential carpentry. Students will also learn basic carpentry skills and use tools in basic carpentry projects. (Non-Credit Course)

Prerequisites/Corequisites: Course Completion or Current Enrollment in ADED 740 (or ADLTED 740)

Recommended: Course Completion of ADLTED 744 and ADLTED 746

Limits on Enrollment:

Transfer Credit:

Repeatability: Exempt From Repeat Provisions

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:

IGETC:	Transfer Area	Effective:	Inactive:
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CSU Transfer:	Effective:	Inactive:
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UC Transfer:	Effective:	Inactive:
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CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

1. Operate hand and power tools.
2. Demonstrate competence in safe use of tools.

Objectives:

At the conclusion of this course, the student should be able to:

1. Identify common carpentry hand and power tools.
2. Analyze a carpentry task and select the appropriate tool.
3. Recognize safe and unsafe use of tools.
4. Operate hand and power tools safely.
5. Demonstrate proper maintenance of hand and power tools.
6. Perform basic carpentry calculations related to tool use.
7. Perform carpentry tasks with safe and appropriate tool use.

Topics and Scope:

I. Carpentry Tools for Framing

A. Hand tools

1. Tape measure
2. String line
3. Chalk line
4. Plumb bob
5. Framing hammer
6. Speed square
7. Rafter square
8. Stair bug
9. Layout marker
10. Handsaw

11. Small sledgehammer
 12. Caulk gun
 13. Leveling tools
 14. Ladders
 15. Scaffolding
 - B. Power tools
 1. Saws
 2. Drills
 3. Pneumatic framing guns
- II. Carpentry Tools for Interior and Exterior Finish
- A. Hand tools
 1. Door balloon lift
 2. Machinist square
 3. Angle finder
 4. Trim hammer
 5. Chisels
 6. Hand plane
 7. Sander
 8. Clamps
 9. Hand awl
 - B. Power tools
 1. Electric hand planer
 2. Sanders
 3. Router
 4. Saws
- III. Concrete Forming Tools
- A. Forming stakes and ties
 - B. Rebar cutter and bender
 - C. Wire tying tool
 - D. Builders transit
- IV. Drywall Tools
- A. Hand tools
 1. Matt knife
 2. T-square
 3. Hole cutter
 4. Drywall saw
 5. Drywall lift
 6. Taping trowels
 7. Sanders
 8. Small hole knife
 - B. Power tools
 1. Screw gun
 2. Router cut-out
- V. Safe and Proper Use of Hand and Power Tools
- A. Prior to operation
 - B. During operation
 - C. Post operation

Assignment:

1. Weekly quizzes (12-15)
2. Group discussion and problem-solving activities

3. Skills demonstration in the proper use of hand and power tools
4. Individual project or presentation

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None

Writing
0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Group problem-solving activities; individual project or presentation

Problem solving
10 - 30%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Skill demonstration

Skill Demonstrations
50 - 75%

Exams: All forms of formal testing, other than skill performance exams.

Weekly quizzes

Exams
10 - 30%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance and participation

Other Category
0 - 10%

Representative Textbooks and Materials:

Instructor prepared materials